

# YLWD'S PFAS WATER TREATMENT PLANT

## HOME TO THE NATION'S LARGEST PFAS WATER TREATMENT PLANT

PFAS = Per- and Polyfluoroalkyl Substances (family of 1000s of chemicals)

PFAS substances are man-made chemicals manufactured since the 1940s, and can be found in coatings on fast food containers, carpets, sofas – anything that is water or oil-resistant. Exposure to certain PFAS have been found to lead to adverse human health effects in high concentrations: reproductive and developmental, liver, kidney and immunological effects, and cholesterol levels.



On February 6, 2020, the Division of Drinking Water changed its response levels for these chemicals. Since PFOA and PFOS have been found in low levels in YLWD's groundwater wells, YLWD partnered with the Orange County Water District to construct a treatment plant, the largest plant of its kind in the nation. The District researched and tested many technologies that could be used to remove PFOA and PFOS from water and ultimately decided to construct an Ion Exchange (IX) plant, a well-established treatment technology.

Our PFAS Water Treatment Plant was completed in December 2021 and is the largest of its kind in the nation with 6 pre-filter units, 22 Ion Exchange vessels, a 25 MGD booster pumping station, and a 1000 kW natural gas back-up generator. The plant distributes treated water to our community at an operating capacity of 19 million gallons of water per day.

DESCRIPTION	DATES
Design	May 2020 - February 2021
Construction Start	March 2021
Regulatory Approval	November 2021
Substantial Completion (Serve Water)	December 2021
<b>Total Capital Budget</b> ~\$28 million	



It's innovative and valuable projects like our PFAS Water Treatment Plant that ensure YLWD continues to deliver safe and reliable drinking water to our customers, every day. You can learn more about PFOA and PFOS and YLWD's actions at [ylwd.com/pfos-and-pfoa](http://ylwd.com/pfos-and-pfoa). Additional information from the State Water Board is available at [www.waterboards.ca.gov/pfas](http://www.waterboards.ca.gov/pfas).

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